

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P939506

Luminaire Tested: **GALN-SB2A-850-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939506
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB2A-850-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6730 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

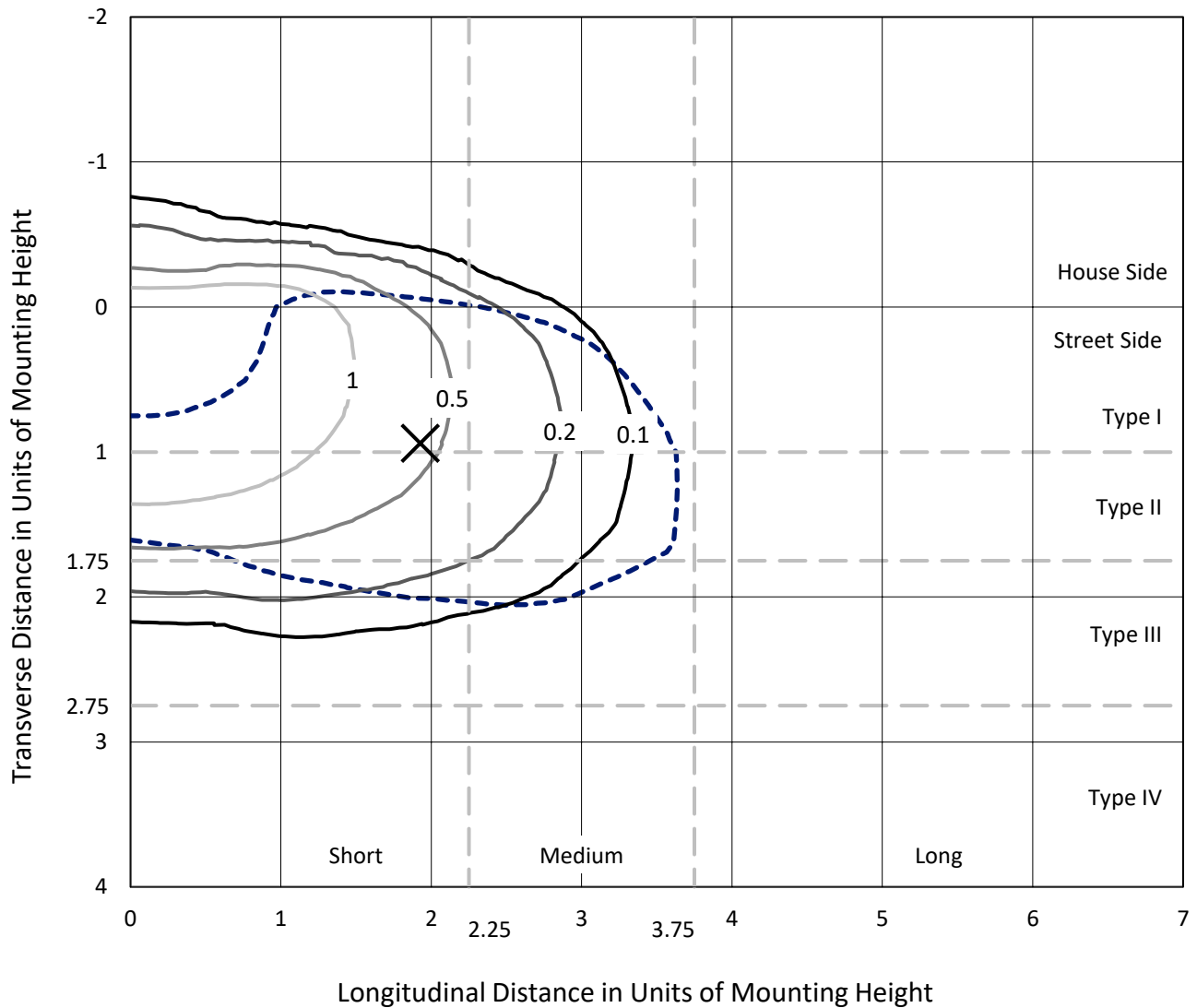
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

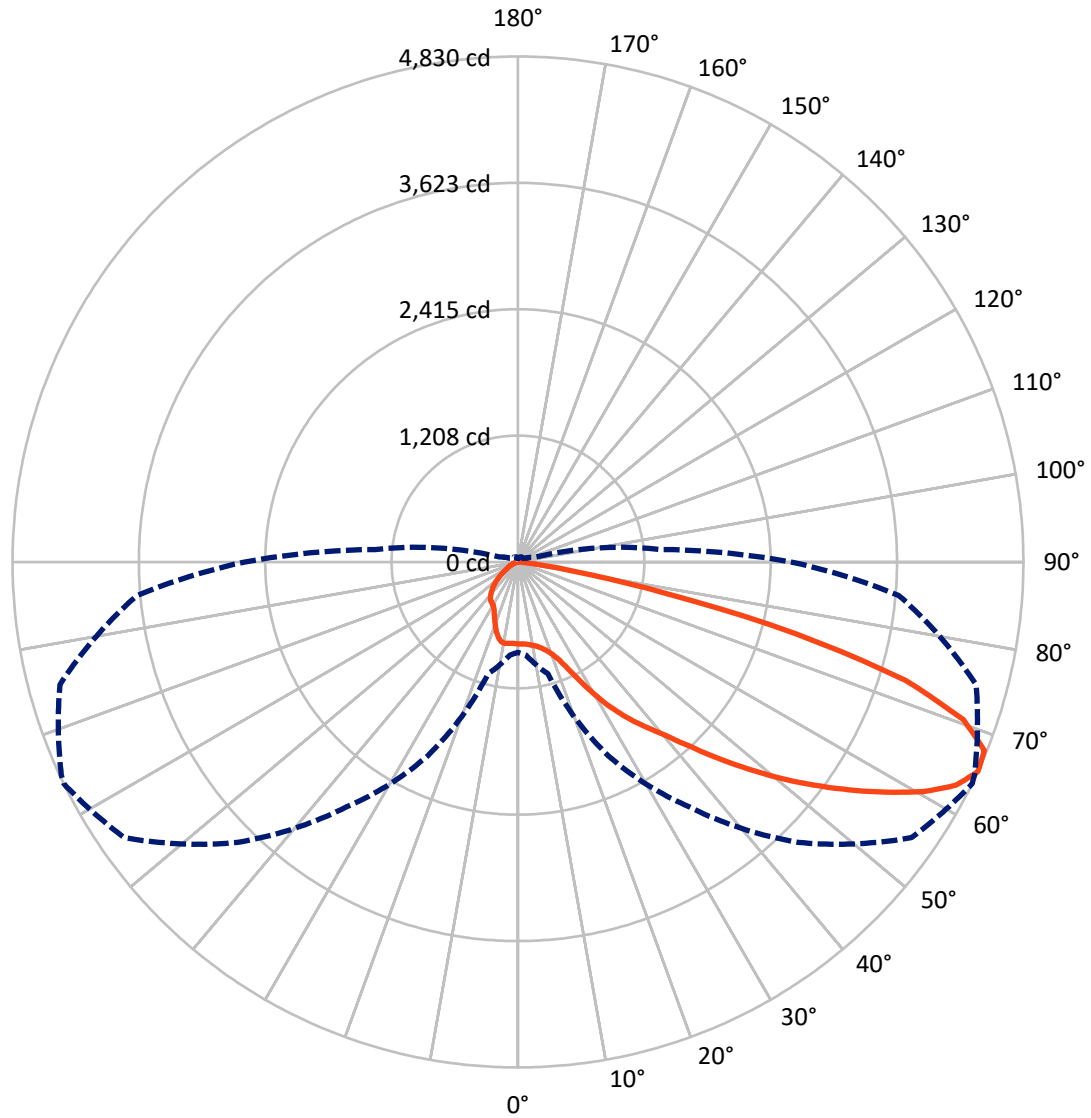
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	900.0	0.0	900.0
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	5830.0	0.0	5830.0
	% Fixture	86.6	0.0	86.6
Total	Lumens	6730.0	0.0	6730.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.2	1.1
10°-20°	195.9	2.9
20°-30°	371.2	5.5
30°-40°	751.1	11.2
40°-50°	1279.5	19.0
50°-60°	1740.0	25.9
60°-70°	1633.9	24.3
70°-80°	654.6	9.7
80°-90°	31.7	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6730.0	100.0
0°-180°	6730.0	100.0

Coefficient of Utilization



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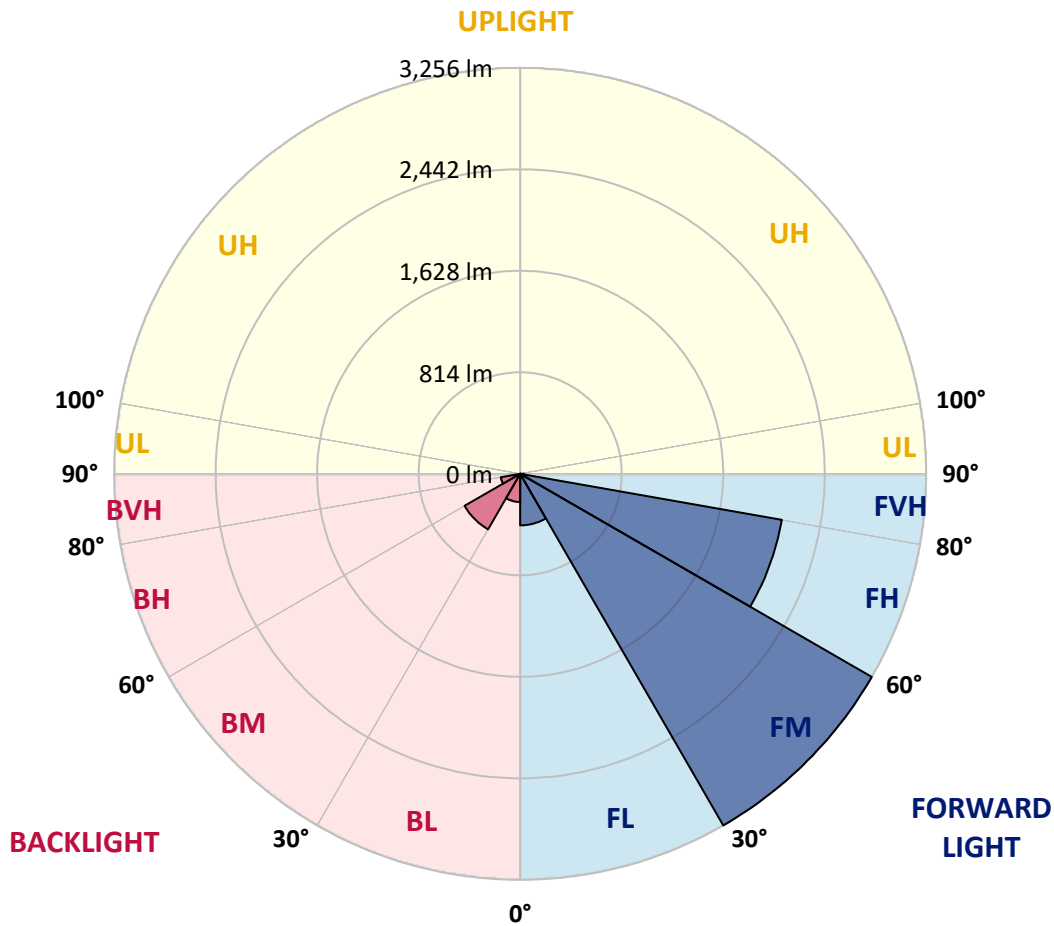
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	413.3	6.1			
FM (30°-60°)	3256.0	48.4			
FH (60°-80°)	2130.6	31.7			G2/5000
FVH (80°-90°)	30.2	0.4			G1/100
BL (0°-30°)	226.0	3.4	B1/500		
BM (30°-60°)	514.5	7.6	B1/1000		
BH (60°-80°)	158.0	2.3	B1/500		G1/500
BVH (80°-90°)	1.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	782.8	782.8	782.8	782.8	782.8	782.8	782.8	782.8	782.8	782.8
2.5°	780.1	785.5	784.1	782.8	782.3	783.2	783.7	783.2	783.2	783.2
5°	765.2	769.7	769.7	772.8	777.4	782.8	786.8	787.7	788.6	790.0
7.5°	736.8	740.4	743.1	753.4	764.7	779.2	791.3	797.7	798.6	803.5
10°	717.4	721.9	726.4	737.2	753.4	775.1	795.9	811.2	813.4	825.2
12.5°	716.4	721.0	726.8	738.6	757.5	780.5	805.8	827.9	831.9	849.1
15°	725.9	731.3	736.8	751.2	771.5	799.5	826.5	854.1	858.1	882.5
17.5°	745.3	752.5	756.6	771.0	792.7	823.8	859.5	891.0	894.7	923.1
20°	783.7	792.2	793.6	805.3	826.5	859.9	902.3	941.6	946.1	978.6
22.5°	863.1	875.3	864.4	870.3	889.2	922.6	968.6	1018.3	1024.6	1061.6
25°	1002.9	1020.1	992.1	982.2	990.3	1025.0	1082.8	1145.5	1152.7	1182.5
27.5°	1277.7	1255.6	1213.2	1171.7	1147.3	1167.2	1232.1	1309.7	1318.8	1347.6
30°	1579.5	1560.1	1502.8	1410.8	1353.0	1349.9	1409.9	1496.5	1506.9	1534.4
32.5°	1881.8	1863.3	1801.0	1687.8	1587.6	1538.0	1579.5	1675.6	1681.0	1698.6
35°	2179.1	2160.2	2097.9	1982.0	1858.8	1746.0	1737.9	1846.2	1848.0	1866.5
37.5°	2478.2	2462.5	2396.1	2282.4	2161.1	2005.4	1930.1	2007.7	2009.9	2028.0
40°	2691.6	2698.4	2652.8	2564.9	2460.6	2290.6	2145.7	2179.6	2166.0	2196.3
42.5°	2874.8	2888.3	2848.6	2804.4	2744.0	2594.2	2412.8	2407.0	2385.3	2401.5
45°	3033.2	3044.5	3008.8	2998.4	2997.1	2892.0	2704.7	2669.5	2639.3	2636.1
47.5°	3091.4	3113.0	3128.4	3163.1	3230.8	3186.6	3006.6	2952.0	2918.1	2893.3
50°	3113.5	3136.5	3188.8	3289.9	3450.0	3469.0	3307.0	3245.7	3204.2	3159.0
52.5°	3083.7	3124.8	3195.1	3365.2	3597.6	3695.5	3595.3	3541.6	3494.3	3420.7
55°	2908.2	2949.3	3093.2	3364.3	3671.1	3854.3	3867.8	3843.9	3790.7	3674.7
57.5°	2538.2	2599.2	2827.0	3249.7	3669.8	3991.0	4134.9	4152.1	4092.5	3926.5
60°	2025.7	2108.3	2386.2	2995.7	3556.5	4065.0	4369.1	4454.8	4391.6	4174.6
62.5°	1413.5	1509.1	1772.2	2597.8	3297.6	4011.7	4540.1	4698.4	4650.6	4396.6
65°	862.2	892.9	1104.9	2044.2	2857.2	3788.9	4592.8	4830.2	4814.4	4532.4
67.5°	574.3	600.0	661.0	1401.8	2217.9	3343.6	4466.5	4807.1	4811.7	4510.3
70°	346.0	368.1	407.9	815.3	1437.4	2646.5	4075.4	4513.9	4540.1	4214.8
72.5°	142.6	157.5	193.5	369.5	744.4	1679.7	3245.2	3875.5	3936.4	3543.9
75°	80.8	88.4	113.7	185.4	323.0	782.8	1965.7	2751.2	2841.0	2442.6
77.5°	53.7	57.3	73.5	120.0	181.8	267.1	840.1	1433.3	1604.8	1334.1
80°	36.1	39.3	50.5	80.3	118.2	114.6	267.5	531.0	653.3	458.4
82.5°	24.4	24.8	36.1	52.8	74.9	55.5	79.0	165.1	207.5	132.6
85°	14.0	13.5	26.6	30.7	33.4	23.0	23.9	49.6	65.0	55.9
87.5°	1.8	2.7	10.4	8.1	4.5	5.0	5.0	8.6	12.6	13.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
782.8	0°	782.8	782.8	782.8	782.8	782.8	782.8	782.8	782.8	782.8	782.8
783.7	2.5°	783.7	783.2	781.9	780.5	777.4	775.6	776.5	775.6	775.1	775.6
789.5	5°	789.5	788.2	784.6	780.1	773.7	766.1	761.1	753.9	747.1	743.1
805.3	7.5°	805.3	804.0	799.0	786.4	766.1	734.0	704.7	679.0	659.6	648.3
830.6	10°	830.6	828.3	820.7	792.7	739.5	669.5	611.3	563.1	531.5	516.6
860.4	12.5°	860.4	857.7	844.1	786.8	688.9	579.7	499.4	445.7	416.4	403.3
894.7	15°	895.6	892.0	865.3	758.9	615.4	480.5	406.9	366.8	347.8	336.1
938.4	17.5°	939.3	933.0	881.1	716.9	535.5	404.7	350.1	319.9	303.2	291.9
995.7	20°	996.2	985.8	893.8	666.8	462.0	356.9	311.8	286.5	273.9	263.9
1076.9	22.5°	1075.6	1060.7	909.1	612.7	410.1	323.9	283.3	264.8	254.5	243.2
1190.2	25°	1173.9	1156.3	928.0	562.6	374.5	295.5	262.6	247.2	235.1	222.0
1338.6	27.5°	1311.5	1280.0	950.6	521.5	343.8	271.1	243.6	226.5	212.5	201.7
1506.9	30°	1464.9	1413.0	970.5	496.7	315.8	248.6	218.8	201.7	188.6	180.9
1658.0	32.5°	1610.2	1539.8	983.5	485.9	290.5	222.9	191.7	173.2	163.3	161.1
1806.0	35°	1747.4	1654.4	982.2	475.5	268.0	197.2	165.1	146.2	138.5	139.9
1965.3	37.5°	1905.3	1776.7	972.7	459.3	249.5	173.7	142.1	125.4	118.7	119.1
2158.8	40°	2088.9	1917.9	966.8	428.6	229.2	152.0	123.2	109.6	104.7	102.9
2362.7	42.5°	2284.7	2054.6	967.7	393.9	203.9	132.6	110.1	98.8	94.3	92.9
2589.7	45°	2481.4	2185.0	969.1	357.8	177.3	117.8	100.6	91.1	88.4	86.6
2819.8	47.5°	2666.4	2296.0	943.8	319.0	151.1	106.5	92.9	86.6	84.4	82.1
3050.8	50°	2838.7	2370.0	882.9	273.9	130.4	97.5	87.1	82.6	80.3	78.1
3260.1	52.5°	2972.7	2381.7	782.3	227.4	115.9	90.7	83.5	79.4	76.7	74.4
3429.3	55°	3032.3	2308.2	639.3	184.1	104.7	84.8	79.9	75.8	72.6	70.4
3562.4	57.5°	3016.9	2153.4	498.5	148.0	93.8	79.0	75.3	72.6	69.0	65.4
3670.2	60°	2941.6	1946.3	375.8	123.2	83.9	72.6	70.4	68.1	63.2	57.7
3711.7	62.5°	2811.2	1686.0	268.0	102.0	73.1	65.4	64.5	62.7	55.5	45.6
3650.4	65°	2611.8	1369.7	180.5	84.8	62.7	57.3	57.7	54.6	45.1	33.8
3425.7	67.5°	2320.3	1001.6	115.5	69.5	52.3	47.8	48.3	46.5	38.3	28.9
2999.8	70°	1949.0	663.2	75.3	52.8	42.0	37.0	39.7	40.2	32.5	23.5
2302.3	72.5°	1428.8	391.6	52.8	39.3	30.7	25.7	32.5	33.4	26.2	17.6
1385.1	75°	814.4	185.9	39.7	28.4	18.9	18.0	25.3	25.3	18.0	11.7
599.6	77.5°	342.0	77.6	28.0	18.5	10.8	10.4	17.1	15.8	9.0	5.4
146.2	80°	98.8	34.7	14.9	9.0	4.5	4.1	6.8	5.0	2.3	0.9
55.5	82.5°	38.8	15.3	5.9	3.6	1.8	1.8	0.9	0.0	0.0	0.0
31.6	85°	23.0	6.3	2.7	1.4	0.5	0.0	0.0	0.0	0.0	0.0
6.8	87.5°	5.9	1.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
782.8
777.4
744.0
648.8
515.2
402.0
336.6
291.0
262.1
241.4
220.6
199.4
179.6
162.4
139.9
120.9
102.4
92.5
86.6
82.1
78.1
74.0
69.9
65.0
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